

**Biochip Electroporator and its use in multi-site, single-cell electroporation.***Abstract*

The introduction of genetic material or molecules of biological interest into cells is a procedure with an increasing interest both for experimental and application  
5 purposes, so that electroporation is a widely used technique, but the electroporation of single adhering cells is still impaired.

The present application describes an apparatus for the electroporation of any kind of cell adhering to a substrate at any stage of development, where an electrical signal can be driven and applied to a single adhering cell in culture in order to  
10 obtain its electroporation. The method to electroporate a single adhering cell with the apparatus of the invention is also described.